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1 **Systematic development of transmission-line models for interconnec with frequency-dependent losses**
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2 **Modeling and simulation of coupled transmission line interconnects a noisy reference plane**
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Giagoglou, F.P.; Theodoulidis, T.P.; Antonopoulos, C.S.; Kriezis, E.E.;
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Pages:1051 - 1055 vol.2

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4 **The ry f field-excited networks**
D'Amore, M.; Sarto, M.S.;
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Greenberg, R.I.;
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Garms, M.A.; Tozze, O.; Fernandes, R.;
Science, Measurement and Technology, IEE Proceedings- , Volume: 150 , Issu 6 , 3 Nov. 2003
Pages:266 - 272

[Abstract]   [PDF Full-Text (384 KB)]   **IEE JNL**

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2 **Internet user access via dial-up networks-traffic characterization an statistics**
Hutchins, R.; Zegura, E.W.; Liashenko, A.; Enslow, P.H., Jr.;
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Pages:314 - 322

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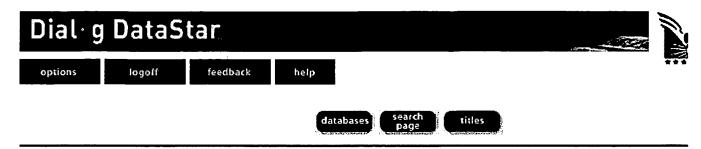
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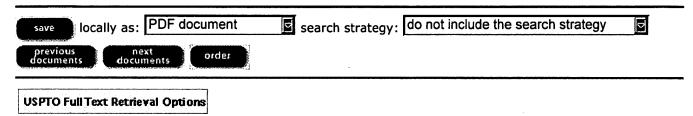
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Title
    Simulation study of delay problems on star-coupled WDM photonic network.
Author(s)
    Jae-Soo-Kim.
Author affiliation
    Dept of Electr & Comput Eng, State Univ of New York, Buffalo, NY, USA.
S urce
    IEICE-Transactions-on-Communications (Japan), vol.E78-B, no.12, p.1646-56, Dec. 1995. , Published: Inst. Electron. Inf. & Commun. Eng.
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Abstract
    This paper investigates the problems which inhibits the use of today`s WDM networks. These are propagation delay, packet processing overhead, bit and frame synchronization, and tuning latency. So far, these problems, especially propagation delay, have been ignored in most performance analysis papers. They have always hindered network designers, but they are magnified by the order of magnitude increase in speed of optical communications systems as compared to previous media. This paper examines the impact of the propagation delay on the performance of WDM protocols with variations in the number of channels, packet **length** and system size, specifically in two reservation based protocols with control channels and two pre-allocation protocols without the control channels. Also the impact of three delay factors (packet processing overhead, bit and frame synchronization and tuning latency) are studied with different propagation delay parameters. In reservation protocols, each node has one agile transmitter and two receivers, one of them is fixed and the other one is agile. The

fixed receiver continuously monitors the control channel, receives all control packets, and updates their own status tables in order to track the availability of the other nodes as a target and data channels to avoid the destination collisions and the data channel collisions. Respectively. In pre-allocation protocols. Each node has a **tunable** transmitter, a fixed or slow **tunable** receiver, and its own home channel to receive the packets. The performance of this protocol is evaluated through the discrete-event **simulati n** in terms of the average packet delay and network throughput. (25 refs).

Descript rs

access-protocols; delays; discrete-event-simulation; optical-fibre-networks; optical-receivers; optical-transmitters; synchronisation;
tuning; wavelength-division-multiplexing.

Keywords

star coupled photonic network; WDM networks; propagation delay; packet processing overhead; frame synchronization; bit synchronization; tuning latency; optical communication; WDM protocols; reservation based protocols; control channels; pre allocation protocols; agile transmitter; fixed receiver; agile receiver; **tunable** transmitter; **tunable** receiver; discrete event **simulation;** average packet delay; network throughput.
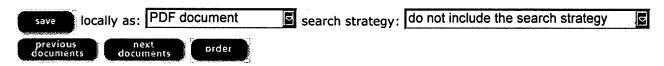
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1 Satellite-based information services: Tunable reliable multicast for periodic information dissemination ■
Tina Wong, Thomas Henderson, Randy H. Katz
January 2002 **Mobile Networks and Applications**, Volume 7 Issue 1
Full text available: 📄 pdf(420.83 KB)   Additional Information: full citation, abstract, references, index terms

> Existing reliable transport protocols for periodic information dissemination ignore application semantics while attempting to be 100% reliable. "Application Level Framing" (ALF) suggests that taking application semantics into account when designing transport protocols can result in performance that is highly optimized for the network. We apply this principle in designing a policy-based TUNAble semi-reliable multicast protocol (TUNA) for periodic information dissemination. Specifically, TUNA is n ...
>
> **Keywords**: bandwidth constraint, content delivery, power constraint, reliable multicast, wireless device

2 Radio resource management: On utility-based radio resource management with and without service guarantees ■
Leonardo Badia, Michele Zorzi
October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**
Full text available: 📄 pdf(183.63 KB)   Additional Information: full citation, abstract, references, index terms

> In this paper we discuss utility functions models to study Radio Resource Management. Our goal is to identify the characteristics of the wireless systems which make such theoretical models, though challenging, very useful, as they allow to quantify the Quality of Service and to analytically investigate the users' satisfaction. Moreover, we show how, within a utility-based framework, it is possible to also study economic issues, besides more conventional technical aspects such as throughput or sy ...
>
> **Keywords**: rate allocation, service guarantees, utility functions

3 Cellular and hybrid networks: ARC: an integrated admission and rate control framework for CDMA data networks based on non-cooperative games ■
Haitao Lin, Mainak Chatterjee, Sajal K. Das, Kalyan Basu
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**
Full text available: 📄 pdf(345.66 KB)   Additional Information: full citation, abstract, references, citings, index terms

The competition among wireless data service providers brings in an option for the customers to switch their providers, due to unsatisfactory service or otherwise. However, the existing resource management algorithms for wireless networks fail to fully capture the far-reaching impact of this *competitiveness*. From this perspective, we propose an integrated *admission and rate control* (ARC) framework for CDMA based wireless data networks. The admission control is at the *session* ...

Keywords: CDMA systems, admission control, non-cooperative games, rate control, wireless data networks

4 Congestion-dependent pricing of network services

Ioannis Ch. Paschalidis, John N. Tsitsiklis
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

Full text available: pdf(339.88 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Internet economics, dynamic programming, loss networks, revenue management

5 Load-sensitive routing of long-lived IP flows

Anees Shaikh, Jennifer Rexford, Kang G. Shin
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.57 MB)   Additional Information: full citation, abstract, references, citings, index terms

Internet service providers face a daunting challenge in provisioning network resources, due to the rapid growth of the Internet and wide fluctuations in the underlying traffic patterns. The ability of dynamic routing to circumvent congested links and improve application performance makes it a valuable traffic engineering tool. However, deployment of load-sensitive routing is hampered by the overheads imposed by link-state update propagation, path selection, and signaling. Under reasonable protoc ...

6 Adaptive packet marking for maintaining end-to-end throughput in a differentiated-services internet

Wu-Chang Feng, Dilip D. Kandlur
October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Full text available: pdf(232.59 KB)   Additional Information: full citation, references, citings, index terms

Keywords: TCP, differentiated services, integrated services, internet, quality-of-service

7 Measurement-based admission control with aggregate traffic envelopes

Jingyu Qiu, Edward W. Knightly
April 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 2

Full text available: pdf(200.91 KB)   Additional Information: full citation, ref rences, citings, index terms, review

Keywords: admission control, quality of service, real-time flows, traffic envelopes

8 Routing: Simplified layering and flexible bandwidth with TWIN

Indra Widjaja, Iraj Saniee

August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

Full text available: pdf(151.86 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes a novel network architecture with simplified layering, called Time-domain Wavelength Interleaved Networking (TWIN), that scales end-to-end bandwidth granularity exibly up to the wavelength capacity. In TWIN, all packet and complex processing functions are pushed to the network edge such that the network core only has to deal with an optical forwarding layer. Furthermore, by avoiding fast optical switching and optical buffering in the core through scheduling fast-tunable lase ...

Keywords: bandwidth granularity, network, network scheduling, simplified layering, switch

9 Service quality in the management of simulation projects

Stewart Robinson, Michael Pidd

December 1995 **Proceedings of the 27th conference on Winter simulation**

Full text available: pdf(679.79 KB)   Additional Information: full citation, references, index terms

10 Is IP going to take over the world (of communications)?

Pablo Molinero-Fernández, Nick McKeown, Hui Zhang

January 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 1

Full text available: pdf(145.46 KB)   Additional Information: full citation, abstract, references, index terms

While it is technically pleasing to believe that IP will dominate all forms of communication, our delight in its elegance is making us overlook its shortcomings. IP is an excellent means to exchange data, which explains its success. It remains ill suited as a means to provide many other types of service; and is too crude to form the transport infrastructure in its own right. To allow the continued success of IP, we must be open-minded to it living alongside, and co-operating with other technique ...

Keywords: IP, circuit switching, packet switching

11 Report on second international workshop on advanced issues of E-commerce and Web-based information systems

Kun-Lung Wu, Philip S. Yu

September 2000 **ACM SIGMOD Record**, Volume 29 Issue 3

Full text available: pdf(97.83 KB)   Additional Information: full citation, abstract, index terms

The Second International Workshop on Advanced Issues of E-Commerce and Web-Based Information Systems (WECWIS 2000) was held at the Crowne Plaza San Jose/Silicon Valley in Milpitas, California on June 8-9, 2000. The purpose of this workshop was to bring together leading practitioners, developers and researchers to explore the challenging technical issues and find feasible solutions for advancing the current state of the art in e-commerce and web-based information systems. In particular, th ...

12 A model of BGP routing for network engineering

Nick Feamster, Jared Winick, Jennifer Rexford

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference   n Measurement and modeling of computer systems**, Volume 32 Issue 1

Full text available: pdf(201.10 KB)   Additional Information: full citation, abstract, references, index terms

The performance of IP networks depends on a wide variety of dynamic conditions. Traffic shifts, equipment failures, planned maintenance, and topology changes in other parts of the Internet can all degrade performance. To maintain good performance, network operators must continually reconfigure the routing protocols. Operators configure BGP to control how traffic flows to neighboring Autonomous Systems (ASes), as well as how traffic traverses their networks. However, because BGP route selection i ...

Keywords: BGP, modeling, routing, traffic engineering

13 <u>Risk analysis: Simulation for risk management: a two-component spot pricing framework for loss-rate guaranteed internet service contracts</u>

Aparna Gupta, Lingyi Zhang, Shivkumar Kalyanaraman

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available: <u>pdf(373.42 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The technological advances in recent years are allowing Internet Service Providers (ISPs) to provide Quality of Service (QoS) assurance for traffic through their domains. This article develops a spot pricing framework for intra-domain expected bandwidth contract with a loss based QoS guarantee. The framework accounts for both the cost and the risks associated with QoS delivery. A nonlinear pricing scheme is used in pricing for cost recovery; a utility based options pricing approach is develop ...

14 <u>Web-based simulation: Web-based simulation 3: simulation web services with .Net technologies</u>

Richard A. Kilgore

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available: <u>pdf(205.81 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The concept of <i>web services</i> represent the next generation of architectures for interoperability between software applications based on software industry standards. Presented here is an overview of web services, a discussion of the use of web services in the context of simulation and a demonstration of the use of web services for simulation as implemented in the Microsoft .Net software development and execution framework. The paper focuses on the vital role of industry <i>st ...

15 <u>Simulation-based scheduling: Maintenance and repair: a simulation model for field service with condition-based maintenance</u>

Yiqing Lin, Arthur Hsu, Ravi Rajamani

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available: <u>pdf(258.25 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

In this paper, we consider field service in which service providers are responsible for maintaining equipment performance. To do so, preventive maintenance work is usually required in addition to repairs. Field service managers are often faced with the conflicting objectives of maintaining a high level of equipment availability and keeping a low service cost. A condition-based maintenance (CBM) system can be used to achieve both goals by using equipment condition as a guide for taking mainten ...

16 <u>Experiments in designing computational economies for mobile users</u>

Tracy Mullen, Jack Breese

October 1998 **Pr ceedings of the first international conference on Information and computation economies**

Full text available: <u>pdf(1.11 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

17 <u>On the reconfigurability of single-hub WDM ring networks</u>

Kayi Lee, Kai-Yeung Siu

April 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 2

Full text available: <u>pdf(587.42 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> We study the benefit of reconfigurability for wavelength division multiplexed (WDM) ring
> networks with dynamic single-hubbed traffic. We showthat the ability to reconfigure
> wavelength add-drop multiplexers helps to reduce the number of expensive line terminating
> equipment (LTEs) by a factor of W, where W is the number of wavelengths in the network.
> In addition, we show that for a general class of traffic, optical networks using reconfigurable
> wavelength add-drop multiplexers guaran ...
>
> **Keywords**: approximation algorithm, capacity ratio, dynamic, hub traffic, reconfigurability,
> ring network, wavelength division multiplexing (WDM)

18 <u>Dynamics of hot-potato routing in IP networks</u>

Renata Teixeira, Aman Shaikh, Tim Griffin, Jennifer Rexford

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint
international conference on Measurement and modeling of computer
systems**, Volume 32 Issue 1

Full text available: <u>pdf(434.30 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Despite the architectural separation between intradomain and interdomain routing in the
> Internet, intradomain protocols do influence the path-selection process in the Border
> Gateway Protocol (BGP). When choosing between multiple equally-good BGP routes, a
> router selects the one with the *closest* egress point, based on the intradomain path cost.
> Under such *hot-potato* routing, an intradomain event can trigger BGP routing changes. To
> characterize the influence of hot-potato routing, we ...
>
> **Keywords**: BGP, OSPF, convergence, hot-potato routing

19 <u>Semantic Web Services: Simulation, verification and automated composition of web</u>
<u>services</u>

Srini Narayanan, Sheila A. McIlraith

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: <u>pdf(439.25 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
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> Web services -- Web-accessible programs and devices - are a key application area for the
> Semantic Web. With the proliferation of Web services and the evolution towards the
> Semantic Web comes the opportunity to automate various Web services tasks. Our
> objective is to enable markup and automated reasoning technology to describe, simulate,
> compose, test, and verify compositions of Web services. We take as our starting point the
> DAML-S DAML+OIL ontology for describing the capabilities of Web service ...
>
> **Keywords**: DAML, automated reasoning, distributed systems, ontologies, semantic web,
> web service composition, web services

20 <u>Mobile wireless networks: Consistency challenges of service discovery in mobile ad</u>
<u>hoc networks</u>

Christian Frank, Holger Karl

October 2004 **Proceedings of the 7th ACM international symposium on Modeling,
analysis and simulation f wireless and mobile systems**

Full text available: <u>pdf(156.79 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Emerging "urban" ad hoc networks resulting from a large number of individual WLAN users
> challenge the way users could explore and interact with their physical surroundings. Robust

and efficient service discovery and routing protocols in such networks are a necessary ingredient. Although a lightweight service discovery proposal integrated with ad hoc routing exists, an implementation and performance evaluation with respect to overhead and correctness have so far been missing.Moreover, the differe ...

Keywords: ad hoc networks, service discovery, ubiquitous computing

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1 Load-sensitive routing of long-lived IP flows   ■
Anees Shaikh, Jennifer Rexford, Kang G. Shin
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: 📄 pdf(1.57 MB)   Additional Information: full citation, abstract, references, citings, index terms

Internet service providers face a daunting challenge in provisioning network resources, due to the rapid growth of the Internet and wide fluctuations in the underlying traffic patterns. The ability of dynamic routing to circumvent congested links and improve application performance makes it a valuable traffic engineering tool. However, deployment of load-sensitive routing is hampered by the overheads imposed by link-state update propagation, path selection, and signaling. Under reasonable protoc ...

2 Cellular and hybrid networks: ARC: an integrated admission and rate control   ■
framework for CDMA data networks based on non-cooperative games
Haitao Lin, Mainak Chatterjee, Sajal K. Das, Kalyan Basu
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**

Full text available: 📄 pdf(345.66 KB)   Additional Information: full citation, abstract, references, citings, index terms

The competition among wireless data service providers brings in an option for the customers to switch their providers, due to unsatisfactory service or otherwise. However, the existing resource management algorithms for wireless networks fail to fully capture the far-reaching impact of this *competitiveness*. From this perspective, we propose an integrated *admission and rate control* (ARC) framework for CDMA based wireless data networks. The admission control is at the *session* ...

Keywords: CDMA systems, admission control, non-cooperative games, rate control, wireless data networks

3 Measurement-based admission control with aggregate traffic envelopes   ■
Jingyu Qiu, Edward W. Knightly
April 2001 **IEEE/ACM Transacti ns on Networking (TON)**, Volume 9 Issue 2

Full text available: 📄 pdf(200.91 KB)   Additional Information: full citation, references, citings, index terms, review

Keywords: admission control, quality of service, real-time flows, traffic envelopes

4 Adaptive packet marking for maintaining end-to-end throughput in a differentiated-services internet

Wu-Chang Feng, Dilip D. Kandlur

October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Full text available: pdf(232.59 KB)   Additional Information: full citation, references, citings, index terms

Keywords: TCP, differentiated services, integrated services, internet, quality-of-service

5 Congestion-dependent pricing of network services

Ioannis Ch. Paschalidis, John N. Tsitsiklis

April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

Full text available: pdf(339.88 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Internet economics, dynamic programming, loss networks, revenue management

6 A model of BGP routing for network engineering

Nick Feamster, Jared Winick, Jennifer Rexford

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems**, Volume 32 Issue 1

Full text available: pdf(201.10 KB)   Additional Information: full citation, abstract, references, index terms

The performance of IP networks depends on a wide variety of dynamic conditions. Traffic shifts, equipment failures, planned maintenance, and topology changes in other parts of the Internet can all degrade performance. To maintain good performance, network operators must continually reconfigure the routing protocols. Operators configure BGP to control how traffic flows to neighboring Autonomous Systems (ASes), as well as how traffic traverses their networks. However, because BGP route selection i ...

Keywords: BGP, modeling, routing, traffic engineering

7 Routing: Simplified layering and flexible bandwidth with TWIN

Indra Widjaja, Iraj Saniee

August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

Full text available: pdf(151.86 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes a novel network architecture with simplified layering, called Time-domain Wavelength Interleaved Networking (TWIN), that scales end-to-end bandwidth granularity exibly up to the wavelength capacity. In TWIN, all packet and complex processing functions are pushed to the network edge such that the network core only has to deal with an optical forwarding layer. Furthermore, by avoiding fast optical switching and optical buffering in the core through scheduling fast-tunable lase ...

Keywords: bandwidth granularity, network, network scheduling, simplified layering, switch

8 Optimizing data aggregation for cluster-based internet services

Lingkun Chu, Hong Tang, Tao Yang, Kai Shen

June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 38 Issue 10

Full text available: pdf(275.38 KB)   Additional Information: full citation, abstract, references, index terms, review

Large-scale cluster-based Internet services often host partitioned datasets to provide incremental scalability. The aggregation of results produced from multiple partitions is a fundamental building block for the delivery of these services. This paper presents the design and implementation of a programming primitive -- Data Aggregation Call (DAC) -- to exploit partition parallelism for cluster-based Internet services. A DAC request specifies a local processing operator and a global reduction ope ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, response time, scalable data aggregation, throughput

9 Efficient policies for carrying Web traffic over flow-switched networks

Anja Feldmann, Jennifer Rexford, Ramón Cáceres

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Full text available: pdf(209.39 KB)   Additional Information: full citation, references, citings, index terms

Keywords: HTTP protocol, IP flows, Internet traffic characterization, routing, signaling, switching

10 Mobile wireless networks: Consistency challenges of service discovery in mobile ad hoc networks

Christian Frank, Holger Karl

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**

Full text available: pdf(156.79 KB)   Additional Information: full citation, abstract, references, index terms

Emerging "urban" ad hoc networks resulting from a large number of individual WLAN users challenge the way users could explore and interact with their physical surroundings. Robust and efficient service discovery and routing protocols in such networks are a necessary ingredient. Although a lightweight service discovery proposal integrated with ad hoc routing exists, an implementation and performance evaluation with respect to overhead and correctness have so far been missing.Moreover, the differe ...

Keywords: ad hoc networks, service discovery, ubiquitous computing

11 Fowarding: Longest prefix matching using bloom filters

Sarang Dharmapurikar, Praveen Krishnamurthy, David E. Taylor

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Full text available: pdf(207.32 KB)   Additional Information: full citation, abstract, references, index terms

We introduce the first algorithm that we are aware of to employ Bloom filters for Longest Prefix Matching (LPM). The algorithm performs parallel queries on Bloom filters, an efficient data structure for membership queries, in order to determine address prefix membership in sets of prefixes sorted by prefix length. We show that use of this algorithm for Internet Protocol (IP) routing lookups results in a search engine providing better performance and scalability than TCAM-based approaches. The ke ...

Keywords: IP lookup, forwarding, longest prefix matching

12 Modeling and simulation of mixed traffic on a prioritized shared medium

Jeffrey J. Evans, Cynthia S. Hood

January 2003 **International Journal of Netw rk Management**, Volume 13 Issue 1

Full text available: pdf(330.18 KB)   Additional Information: full citation, abstract, references, index terms

Network access systems (NAS) such as digital loop carriers (DLC) are increasingly utilizing a shared medium, such as Hybrid Fiber Coax (HFC) to provide point-to-multi-point access from the public switched telephone network (PSTN) to the end user (consumer). New services, such as direct access to the packet switched network (PSN, WWW) have been added to DLC equipment in such a way as to provide for a prioritized set of services over a shared medium in an effort to take advantage of otherwise unus ...

13 Fast address lookups using controlled prefix expansion

V. Srinivasan, G. Varghese

February 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 1

Full text available: pdf(258.60 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Internet (IP) address lookup is a major bottleneck in high-performance routers. IP address lookup is challenging because it requires a longest matching prefix lookup. It is compounded by increasing routing table sizes, increased traffic, higher-speed links, and the migration to 128-bit IPv6 addresses. We describe how IP lookups and updates can be made faster using a set of of transformation techniques. Our main technique, controlled prefix expansion, transf ...

Keywords: Internet address lookup, binary search on levels, controlled prefix expansion, expanded tries, longest-prefix match, multibit tries, router preformance

14 Protocol architectures: A framework for scalable global IP-anycast (GIA)

Dina Katabi, John Wroclawski

April 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 2 supplement

Full text available: pdf(3.30 MB)   Additional Information: full citation, abstract, references

This paper proposes GIA, a scalable architecture for global IP-anycast. Existing designs for providing IP-anycast must either globally distribute routes to individual anycast groups, or confine each anycast group to a pre-configured topological region. The first approach does not scale because of excessive growth in the routing tables, whereas the second one severely limits the utility of the service. Our design scales by dividing inter-domain anycast routing into two components. The first compo ...

Keywords: anycast, architecture, internet, routing, scalable

15 Proportional differentiated services: delay differentiation and packet scheduling

Constantinos Dovrolis, Dimitrios Stiliadis, Parameswaran Ramanathan

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings, index terms

Internet applications and users have very diverse service expectations, making the current *same-service-to-all* model inadequate and limiting. In the *relative differentiated services* approach, the network traffic is grouped in a small number of *service classes which are ordered based on their packet forwarding quality*, in terms of per-hop metrics for the queueing delays and packet losses. The users and applications, in this context, can

*adaptively*choose the class that ...

16 <u>Scheduling variable-length messages in a single-hop multichannel local lightwave</u>
<u>network</u>
Feiling Jia, Biswanath Mukherjee, Jason Iness
August 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 4

Full text available: <u>pdf(1.20 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

17 <u>Parallel and distributed systems and networking: Load balancing for the management</u>
<u>of service performance in open service markets: a customer-oriented approach</u>
Dirk Thißen
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: <u>pdf(679.31 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In open service markets customers can choose between several providers offering similar
services. To survive in the arising competition, service providers are compelled to satisfy
their customers by not only offering services for a reasonable price but additionally deploy
them in an efficient way regarding e.g. performance and availability. Because in a service
provision process application, network, and system aspects are involved, new management
concepts are needed. This paper discusses a mech ...

Keywords: load balancing, management proxy, open service markets, service trading

18 <u>Dynamic queue length thresholds for multiple loss priorities</u>
Ellen L. Hahne, Abhijit K. Choudhury
June 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 3

Full text available: <u>pdf(545.38 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

Buffer management schemes are needed in shared-memory packet switches to regulate the
sharing of memory among different output port queues and among traffic classes with
different loss priorities. Earlier we proposed a single-priority scheme called Dynamic
Threshold (DT), in which the maximum permissible queue length is proportional to the
unused buffering in the switch. A queue whose length equals or exceeds the current
threshold value may accept no new arrivals. In this paper, we propose, anal ...

Keywords: buffer management, congestion control, loss priorities, packet switching, queue
length thresholds, selective discarding, shared memory, space priorities

19 <u>A unified approach for improving QoS and provider revenue in 3G mobile networks</u>
Christoph Lindemann, Marco Lohmann, Axel Thümmler
June 2003 **Mobile Networks and Applications**, Volume 8 Issue 3

Full text available: <u>pdf(407.92 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, we introduce a unified approach for the adaptive control of 3G mobile
networks in order to improve both quality of service (QoS) for mobile subscribers and to
increase revenue for service providers. The introduced approach constantly monitors QoS
measures as packet loss probability and the current number of active mobile users during
operation of the network. Based on the values of the QoS measures just observed, the
system parameters of the admission controller and packet schedul ...

Keywords: admission control in mobile system, performance evaluation of next generation
mobile systems, pricing and revenue optimization, quality of service in mobile systems

20 A framework for scalable global IP-anycast (GIA)

Dina Katabi, John Wroclawski

August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference n Applications, Technol gies, Architectures, and Protocols for C mputer Communication,** Volume 30 Issue 4

Full text available: pdf(306.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper proposes GIA, a scalable architecture for global IP-anycast. Existing designs for providing IP-anycast must either globally distribute routes to individual anycast groups, or confine each anycast group to a pre-configured topological region. The first approach does not scale because of excessive growth in the routing tables, whereas the second one severely limits the utility of the service. Our design scales by dividing inter-domain anycast routing into two components. The first ...

Keywords: Internet, anycast, architecture, routing, scalable

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☐	L34	simulat$ and local loop and wideband	142
☐	L33	telebyte	4
☐	L32	('6047045' |'6795399' |'6438594' |'6289382' |'20020105964' |'6507606' |'6021158')!.PN.	7
☐	L31	L30 and bandwidth	49
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☐	L29	L24 and loop	252
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☐	L24	L23 and media	269
☐	L23	L22 and communication?	281
☐	L22	L21 and tun$	294
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☐	L12	L11 and service	91
☐	L11	L10 and provider	92
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☐	L9	L8 and communicat$	301
☐	L8	L7 and wire	353
☐	L7	L6 and load	736
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☐	L5	L4 and wire	12

☐	L4	L3 and load	25
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☐ 1.   Document ID: US 20040095167 A1

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L33: Entry 1 of 4   File: PGPB   May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040095167
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040095167 A1

TITLE: Waveform generator

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schneider, Kenneth S.	Jericho	NY	US	
Moodenbaugh, Leo P.	Westhampton	NY	US	
Williams, Arthur B.	Smithtown	NY	US	
Meade, John E.	Northport	NY	US	

US-CL-CURRENT: 327/106

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 2.   Document ID: US 6150992 A

L33: Entry 2 of 4   File: USPT   Nov 21, 2000

US-PAT-NO: 6150992
DOCUMENT-IDENTIFIER: US 6150992 A

TITLE: Traceable self-contained programmable frequency source for performing
alternate test site and open area test site comparisons

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hall; Kenneth E.	Weimar	CA		
Pommerenke; David	Rocklin	CA		
Kolb; Lowell Edward	Loveland	CO		

US-CL-CURRENT: 343/846; 342/372

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 3. Document ID: US 5671158 A

L33: Entry 3 of 4   File: USPT   Sep 23, 1997

US-PAT-NO: 5671158
DOCUMENT-IDENTIFIER: US 5671158 A

TITLE: Apparatus and method for effecting wireless discourse between computer and technician in testing motor vehicle emission control systems

DATE-ISSUED: September 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fournier; Thomas J.	Tucson	AZ		
Kohn; Bruce R.	Tucson	AZ		
Lee; Samuel Chu	Tucson	AZ		
Mitchell; Glenn E.	Tucson	AZ		

US-CL-CURRENT: 345/8; 324/409, 340/825.69, 345/156, 348/838

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 4. Document ID: US 4612532 A

L33: Entry 4 of 4   File: USPT   Sep 16, 1986

US-PAT-NO: 4612532
DOCUMENT-IDENTIFIER: US 4612532 A

TITLE: Data compression apparatus and method

DATE-ISSUED: September 16, 1986

INVENTOR-INFORMATION:
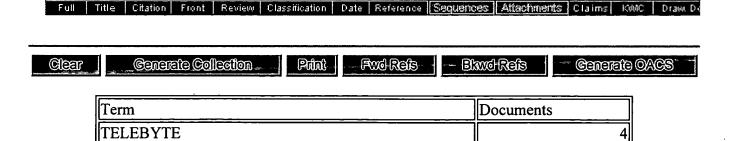
NAME	CITY	STATE	ZIP CODE	COUNTRY
Bacon; Francis L.	Wayland	MA		
Houde; Donald J.	Wayland	MA		

US-CL-CURRENT: 341/51; 341/106, 341/90

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Term	Documents
TELEBYTE	4
TELEBYTES	0

| TELEBYTE.PGPB,USPT. | 4 |
| (TELEBYTE).PGPB,USPT. | 4 |

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☐ 1. Document ID: US 20020105964 A1

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L28: Entry 1 of 1                        File: PGPB          Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020105964
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020105964 A1

TITLE: Long subscriber loops using automatic gain control

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:
NAME                     CITY               STATE   COUNTRY     RULE-47
Sommer, Jeremy           Mountain View      CA      US
Shenoi, Kishan           Saratoga           CA      US
Kraba, Kamila            Santa Clara        CA      US
Squadrito, Sandro        San Jose           CA      US
Bogardus, Gary           San Carlos         CA      US
```

US-CL-CURRENT: <u>370</u>/<u>463</u>; <u>370</u>/<u>501</u>

Term	Documents
LENGTH	1753698
LENGTHS	372629
WIRE	525293
WIRES	273804
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(L24 AND LENGTH NEAR WIRE).PGPB,USPT.	1

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    L28: Entry 1 of 1   File: PGPB   Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020105964
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020105964 A1

TITLE: Long subscriber loops using automatic gain control

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sommer, Jeremy	Mountain View	CA	US	
Shenoi, Kishan	Saratoga	CA	US	
Kraba, Kamila	Santa Clara	CA	US	
Squadrito, Sandro	San Jose	CA	US	
Bogardus, Gary	San Carlos	CA	US	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Symmetricom, Inc.				02

APPL-NO: 09/ 843161   [PALM]
DATE FILED: April 25, 2001

RELATED-US-APPL-DATA:
Application is a non-provisional-of-provisional application 60/199930, filed April
26, 2000,

INT-CL: [07] H04 L 12/66

US-CL-PUBLISHED: 370/463; 370/501
US-CL-CURRENT: 370/463; 370/501

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

Systems and methods are described for long subscriber loops using automatic gain
control. A method includes extending a digital subscriber loop including: producing
an output signal from said first variable gain amplifier responsive to an input
signal from said digital subscriber loop; monitoring a signal strength of said
output signal; generating a gain control signal responsive to said signal strength;
and controlling a gain of said variable gain amplifier responsive to said gain
control signal. An apparatus includes a digital subscriber loop extender circuit
including: a variable gain amplifier having a gain and providing an output signal
in response to an input signal from a signal generator over a transmission medium,
said output signal having a signal strength as a function of said gain; and a
controller coupled to said variable gain amplifier, said controller generating a

gain control signal that is feed back to said variable gain amplifier to
automatically control said gain.

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application is related to, and claims a benefit of priority under 35
U.S.C. 119(e) and/or 35 U.S.C. 120 of copending U.S. Ser. No. 60/199,930, filed
Apr. 26, 2000, now pending, the entire contents of which are hereby incorporated by
reference for all purposes.

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Search Results - Record(s) 1 through 12 of 12 returned.

☐   1.   Document ID: US 20040208183 A1

Using default format because multiple data bases are involved.

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L5: Entry 1 of 12                        File: PGPB              Oct 21, 2004


PGPUB-DOCUMENT-NUMBER: 20040208183
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040208183 A1

TITLE: Scheduler and method for scheduling transmissions in a communication network

PUBLICATION-DATE: October 21, 2004

INVENTOR-INFORMATION:
NAME                          CITY            STATE    COUNTRY     RULE-47
Balachandran, Krishna         Morganville     NJ       US
Budka, Kenneth C.             Marlboro        NJ       US
Das, Arnab                    Washington      DC       US
Medapalli, Kameswara Rao      Middletown      NJ       US
Parulekar, Minothi            Bangalore                IN
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US-CL-CURRENT: 370/395.21

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐   2.   Document ID: US 20040166799 A1

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L5: Entry 2 of 12                        File: PGPB              Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040166799
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040166799 A1

TITLE: Local oscillator apparatus and method

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:
NAME                          CITY            STATE    COUNTRY     RULE-47
Kral, Alexandre               Laguna Niguel   CA       US
```

US-CL-CURRENT: 455/3.02; 455/319

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3. Document ID: US 20040098447 A1

L5: Entry 3 of 12   File: PGPB   May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040098447
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040098447 A1

TITLE: System and method for submitting and performing computational tasks in a
distributed heterogeneous networked environment

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY	RULE-47
Verbeke, Jerome M.	San Jose	CA	US	
Nadgir, Neelakanth M.	Mountain View	CA	US	
Ruetsch, Gregory R.	Palo Alto	CA	US	
Sharapov, Ilya A.	Sunnyvale	CA	US	
Vernik, Michael J.	San Francisco	CA	US	
Trang, Vu	San Jose	CA	US	

US-CL-CURRENT: 709/201; 709/220

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 4. Document ID: US 20040045030 A1

L5: Entry 4 of 12   File: PGPB   Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040045030
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040045030 A1

TITLE: System and method for communicating media signals

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY	RULE-47
Reynolds, Jodie Lynn	Folsom	CA	US	
Ingraham, Robert Walter	Folsom	CA	US	

US-CL-CURRENT: 725/110

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 5. Document ID: US 20030222820 A1

L5: Entry 5 of 12   File: PGPB   Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030222820

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030222820 A1

TITLE: Wireless location using hybrid techniques

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: <u>342</u>/<u>457</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

□ 6. Document ID: US 20030146871 A1

L5: Entry 6 of 12   File: PGPB   Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030146871
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030146871 A1

TITLE: Wireless location using signal direction and time difference of arrival

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: <u>342</u>/<u>457</u>; <u>342</u>/<u>465</u>, <u>455</u>/<u>404.2</u>, <u>455</u>/<u>456.5</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

□ 7. Document ID: US 20030134648 A1

L5: Entry 7 of 12   File: PGPB   Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134648
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134648 A1

TITLE: Machine for providing a dynamic data base of geographic location information for a plurality of wireless devices and process for making same

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reed, Mark Jefferson	Tucson	AZ	US	

Palik, Stephen M.   St. Petersburg   FL   US

US-CL-CURRENT: <u>455</u>/<u>456.1</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 8.   Document ID: US 20030045263 A1

L5: Entry 8 of 12   File: PGPB   Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030045263
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030045263 A1

TITLE: Integrated direct conversion satellite tuner

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wakayama, Myles	Laguna Niguel	CA	US	
Laub, Dana V.	Irvine	CA	US	
Carr, Frank	Newport Beach	CA	US	
Mellati, Afshin	Aliso Viejo	CA	US	
Ho, David S.	Singapore	CA	SG	
Lee, Hsiang-Bin	Irvine	CA	US	
Chen, Chun-Ying	Irvine	CA	US	
Chang, James Y.	Irvine	CA	US	
Burns, Lawrence M.	Laguna Hills	CA	US	
Shin, Young J.	Irvine		US	
Pai, Patrick			US	
Koullias, Iconomos A.			US	
Lipka, Ron			US	
Steigerwald, Luke T.			US	

US-CL-CURRENT: <u>455</u>/<u>323</u>; <u>455</u>/<u>306</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 9.   Document ID: US 20020120937 A1

L5: Entry 9 of 12   File: PGPB   Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120937
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020120937 A1

TITLE: Apparatus for reducing flicker noise in a mixer circuit

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chang, James Y.C.	Irvine	CA	US	

US-CL-CURRENT: <u>725</u>/<u>68</u>; <u>348</u>/<u>607</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 10. Document ID: US 20010022558 A1

L5: Entry 10 of 12   File: PGPB   Sep 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010022558
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010022558 A1

TITLE: Wireless location using signal fingerprinting

PUBLICATION-DATE: September 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L. JR.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Denver	CO	US	

US-CL-CURRENT: <u>342</u>/<u>450</u>; <u>455</u>/<u>456.5</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 11. Document ID: US 6119167 A

L5: Entry 11 of 12   File: USPT   Sep 12, 2000

US-PAT-NO: 6119167
DOCUMENT-IDENTIFIER: US 6119167 A

TITLE: Pushing and pulling data in networks

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyle; Stephen S.	Fremont	CA		
King; Peter F.	Half Moon Bay	CA		
Martin, Jr.; Bruce K.	Palo Alto	CA		
Rossmann; Alain S.	Palo Alto	CA		
Schwartz; Bruce V.	San Mateo	CA		

US-CL-CURRENT: <u>709</u>/<u>234</u>; <u>709</u>/<u>203</u>, <u>709</u>/<u>235</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   12.   Document ID: US 6047045 A

L5: Entry 12 of 12   File: USPT   Apr 4, 2000

US-PAT-NO: 6047045
DOCUMENT-IDENTIFIER: US 6047045 A

TITLE: System and method for testing a telephone data interface system

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bauer; Deborah	Leesburg	VA		
Button; Ross Edward	Ontario			CA
Cavanagh; Mike	Woodlawn			CA
McQuigge Ernst; Susan Jane	Gloucester			CA
Germann; Kevin	Gatineau			CA
Holmes; Ralph	Glenn Dale	MD		
Howlette; Samuel S.	Great Falls	VA		
Kalyn; William	Kanata			CA
Sauve; Steve	Orleans			CA
Sommers; Francis Cornelius	Ottawa			CA

US-CL-CURRENT: 379/26.01; 379/15.01

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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(L4 AND WIRE).PGPB,USPT.	12

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Previous Page   Next Page   Go to Doc#

Hit List

Search Results - Record(s) 1 through 20 of 25 returned.

☐ 1. Document ID: US 20040225659 A1

Using default format because multiple data bases are involved.

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L4: Entry 1 of 25                          File: PGPB                    Nov 11, 2004


PGPUB-DOCUMENT-NUMBER: 20040225659
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040225659 A1


TITLE: Storage foundry


PUBLICATION-DATE: November 11, 2004


INVENTOR-INFORMATION:
NAME                    CITY                STATE       COUNTRY        RULE-47
O'Brien, John           Short Hills         NJ          US
Shulga, Nikita          Chernogolovka                   RU


US-CL-CURRENT: 707/9
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 2. Document ID: US 20040208183 A1

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L4: Entry 2 of 25                          File: PGPB                    Oct 21, 2004


PGPUB-DOCUMENT-NUMBER: 20040208183
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040208183 A1


TITLE: Scheduler and method for scheduling transmissions in a communication network


PUBLICATION-DATE: October 21, 2004


INVENTOR-INFORMATION:
NAME                        CITY            STATE       COUNTRY        RULE-47
Balachandran, Krishna       Morganville     NJ          US
Budka, Kenneth C.           Marlboro        NJ          US
Das, Arnab                  Washington      DC          US
Medapalli, Kameswara Rao    Middletown      NJ          US
Parulekar, Minothi          Bangalore                   IN


US-CL-CURRENT: 370/395.21
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Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3.   Document ID: US 20040166799 A1

L4: Entry 3 of 25   File: PGPB   Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040166799
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040166799 A1

TITLE: Local oscillator apparatus and method

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY	RULE-47
Kral, Alexandre	Laguna Niguel	CA	US	

US-CL-CURRENT: 455/3.02; 455/319

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 4.   Document ID: US 20040098447 A1

L4: Entry 4 of 25   File: PGPB   May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040098447
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040098447 A1

TITLE: System and method for submitting and performing computational tasks in a
distributed heterogeneous networked environment

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY	RULE-47
Verbeke, Jerome M.	San Jose	CA	US	
Nadgir, Neelakanth M.	Mountain View	CA	US	
Ruetsch, Gregory R.	Palo Alto	CA	US	
Sharapov, Ilya A.	Sunnyvale	CA	US	
Vernik, Michael J.	San Francisco	CA	US	
Trang, Vu	San Jose	CA	US	

US-CL-CURRENT: 709/201; 709/220

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 5.   Document ID: US 20040045030 A1

L4: Entry 5 of 25   File: PGPB   Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040045030
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040045030 A1

TITLE: System and method for communicating media signals

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reynolds, Jodie Lynn	Folsom	CA	US	
Ingraham, Robert Walter	Folsom	CA	US	

US-CL-CURRENT: 725/110

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 6.   Document ID: US 20040032887 A1

L4: Entry 6 of 25   File: PGPB   Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032887
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040032887 A1

TITLE: system and method for generating multi-wavelength laser source using highly nonlinear fiber

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ahmadvand, Nima	Ottawa		CA	
Xu, Jidong	Gloucester		CA	
Sun, Jie	Ottawa		CA	
Hu, Hanwu	Ottawa		CA	
Peng, Qi Yang	Ottawa		CA	

US-CL-CURRENT: 372/21

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 7.   Document ID: US 20030222820 A1

L4: Entry 7 of 25   File: PGPB   Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030222820
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030222820 A1

TITLE: Wireless location using hybrid techniques

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: <u>342/457</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 8.   Document ID: US 20030214954 A1

L4: Entry 8 of 25   File: PGPB   Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030214954
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030214954 A1

TITLE: Active queue management for differentiated services

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Oldak, Salomon	Los Angeles	CA	US	
Gong, Wei-Bo	Amherst	MA	US	
Hollot, Christopher V.	Easthampton	MA	US	
Towsley, Don	Amherst	MA	US	
Misra, Vishal	New York	NY	US	
Chait, Yossi	Longmeadow	MA	US	

US-CL-CURRENT: <u>370/400</u>; <u>370/395.52</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 9.   Document ID: US 20030146871 A1

L4: Entry 9 of 25   File: PGPB   Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030146871
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030146871 A1

TITLE: Wireless location using signal direction and time difference of arrival

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: <u>342/457</u>; <u>342/465</u>, <u>455/404.2</u>, <u>455/456.5</u>

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 Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D
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☐ 10.   Document ID: US 20030134648 A1

L4: Entry 10 of 25   File: PGPB   Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134648
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134648 A1

TITLE: Machine for providing a dynamic data base of geographic location information
for a plurality of wireless devices and process for making same

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reed, Mark Jefferson	Tucson	AZ	US	
Palik, Stephen M.	St. Petersburg	FL	US	

US-CL-CURRENT: 455/456.1

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 Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D
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☐ 11.   Document ID: US 20030081878 A1

L4: Entry 11 of 25   File: PGPB   May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030081878
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030081878 A1

TITLE: Transmitter photonic integrated circuit (TxPIC) chip with enhanced power and
yield without on-chip amplification

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Joyner, Charles H.	Sunnyvale	CA	US	
Kish, Fred A. JR.	Palo Alto	CA	US	
Peters, Frank H.	San Jose	CA	US	
Mathur, Atul	Santa Clara	CA	US	
Welch, David F.	Menlo Park	CA	US	
Dentai, Andrew G.	Mountain View	CA	US	
Lambert, Damien	Sunnyvale	CA	US	
Schneider, Richard P.	Mountain View	CA	US	
Missey, Mark J.	San Jose	CA	US	

US-CL-CURRENT: 385/14

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |`

□ 12.   Document ID: US 20030045263 A1

L4: Entry 12 of 25   File: PGPB   Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030045263
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030045263 A1

TITLE: Integrated direct conversion satellite tuner

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wakayama, Myles	Laguna Niguel	CA	US	
Laub, Dana V.	Irvine	CA	US	
Carr, Frank	Newport Beach	CA	US	
Mellati, Afshin	Aliso Viejo	CA	US	
Ho, David S.	Singapore	CA	SG	
Lee, Hsiang-Bin	Irvine	CA	US	
Chen, Chun-Ying	Irvine	CA	US	
Chang, James Y.	Irvine	CA	US	
Burns, Lawrence M.	Laguna Hills	CA	US	
Shin, Young J.	Irvine		US	
Pai, Patrick			US	
Koullias, Iconomos A.			US	
Lipka, Ron			US	
Steigerwald, Luke T.			US	

US-CL-CURRENT: <u>455/323</u>; <u>455/306</u>

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |`

□ 13.   Document ID: US 20030039212 A1

L4: Entry 13 of 25   File: PGPB   Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030039212
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030039212 A1

TITLE: Method and apparatus for the assessment and optimization of network traffic

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lloyd, Michael A.	Belmont	CA	US	
Baldonado, Omar C.	Palo Alto	CA	US	
Finn, Sean P.	Belmont	CA	US	

| Karam, Mansour J. | Mountain View | CA | US |
| McGuire, James G. | San Francisco | CA | US |

US-CL-CURRENT: <u>370</u>/<u>235</u>; <u>370</u>/<u>252</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 14.   Document ID: US 20030033214 A1

L4: Entry 14 of 25   File: PGPB   Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030033214
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030033214 A1

TITLE: Media delivery platform

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mikkelsen, John	Minneapolis	MN	US	
Freidson, Robert	St. Petersburg		RU	

US-CL-CURRENT: <u>705</u>/<u>26</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 15.   Document ID: US 20030014379 A1

L4: Entry 15 of 25   File: PGPB   Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030014379
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030014379 A1

TITLE: ADAPTIVE AND RELIABLE SYSTEM AND METHOD FOR OPERATIONS MANAGEMENT

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
SAIAS, ISAAC	LOS ALAMOS	NM	US	
DARLEY, VINCE	SANTA FE	NM	US	
KAUFFMAN, STUART A.	SANTA FE	NM	US	
FEDERSPIEL, FRED	SANTA FE	NM	US	
COHN, JUDITH	SANTA FE	NM	US	
LEVITAN, BENNETT	PLACITAS	NM	US	
MACDONALD, ROBERT	SANTA FE	NM	US	
MACREADY, WILLIAM	SANTA FE	NM	US	
TOLLANDER, CARL	SANTA FE	NM	US	

US-CL-CURRENT: <u>706/45</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 16.   Document ID: US 20020120937 A1

L4: Entry 16 of 25   File: PGPB   Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120937
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020120937 A1

TITLE: Apparatus for reducing flicker noise in a mixer circuit

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chang, James Y.C.	Irvine	CA	US	

US-CL-CURRENT: <u>725/68</u>; <u>348/607</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 17.   Document ID: US 20010032029 A1

L4: Entry 17 of 25   File: PGPB   Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032029
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010032029 A1

TITLE: System and method for infrastructure design

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kauffman, Stuart	Santa Fe	NM	US	

US-CL-CURRENT: <u>700/99</u>; <u>700/105</u>, <u>700/106</u>, <u>700/97</u>, <u>705/7</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 18.   Document ID: US 20010022558 A1

L4: Entry 18 of 25   File: PGPB   Sep 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010022558
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010022558 A1

TITLE: Wireless location using signal fingerprinting

PUBLICATION-DATE: September 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L. JR.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Denver	CO	US	

US-CL-CURRENT: <u>342</u>/<u>450</u>; <u>455</u>/<u>456.5</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   19.   Document ID: US 6822787 B1

L4: Entry 19 of 25   File: USPT   Nov 23, 2004

US-PAT-NO: 6822787
DOCUMENT-IDENTIFIER: US 6822787 B1

TITLE: Lasing semiconductor optical amplifier with optical signal power monitor

DATE-ISSUED: November 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DiJaili; Sol P.	Moraga	CA		
Walker; Jeffrey D.	El Cerrito	CA		

US-CL-CURRENT: <u>359</u>/<u>344</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   20.   Document ID: US 6795399 B1

L4: Entry 20 of 25   File: USPT   Sep 21, 2004

US-PAT-NO: 6795399
DOCUMENT-IDENTIFIER: US 6795399 B1

TITLE: Link capacity computation methods and apparatus for designing IP networks
with performance guarantees

DATE-ISSUED: September 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Benmohamed; Lotfi	Freehold	NJ		
Dravida; Subrahmanyam	Groton	MA		
Harshavardhana; Paramasiviah	Marlboro	NJ		
Lau; Wing Cheong	Eatontown	NJ		
Mittal; Ajay Kumar	Edison	NJ		

US-CL-CURRENT: <u>370</u>/<u>235</u>; <u>370</u>/<u>252</u>, <u>370</u>/<u>255</u>, <u>709</u>/<u>226</u>, <u>709</u>/<u>238</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

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Display Format: [-]   Change Format

Previous Page   Next Page   Go to Doc#

Hit List

Search Results - Record(s) 21 through 25 of 25 returned.

☐ 21. Document ID: US 6578066 B1

Using default format because multiple data bases are involved.

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L4: Entry 21 of 25                    File: USPT           Jun 10, 2003
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US-PAT-NO: 6578066
DOCUMENT-IDENTIFIER: US 6578066 B1
```

TITLE: Distributed load-balancing internet servers

DATE-ISSUED: June 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Logan; David B.	San Jose	CA		
Sathaye; Shirish	San Jose	CA		

US-CL-CURRENT: 718/105; 370/312, 709/203, 709/223, 709/228

☐ 22. Document ID: US 6333917 B1

```
L4: Entry 22 of 25                    File: USPT           Dec 25, 2001
```

```
US-PAT-NO: 6333917
DOCUMENT-IDENTIFIER: US 6333917 B1
```

TITLE: Method and apparatus for red (random early detection) and enhancements.

DATE-ISSUED: December 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lyon; Norman A.	Hull			CA
Morris; Todd D.	Stittsville			CA

US-CL-CURRENT: 370/236; 370/249, 370/252, 370/412

☐ 23. Document ID: US 6240463 B1

```
L4: Entry 23 of 25                    File: USPT           May 29, 2001
```

US-PAT-NO: 6240463
DOCUMENT-IDENTIFIER: US 6240463 B1

TITLE: Router placement methods and apparatus for designing IP networks with performance guarantees

DATE-ISSUED: May 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Benmohamed; Lotfi	Freehold	NJ		
Dravida; Subrahmanyam	Groton	MA		
Harshavardhana; Paramasiviah	Marlboro	NJ		
Lau; Wing Cheong	Eatontown	NJ		
Mittal; Ajay Kumar	Edison	NJ		

US-CL-CURRENT: 709/238; 370/238, 370/399, 709/201, 709/202, 709/209, 709/217, 709/218, 709/219, 709/224, 709/227, 709/228, 709/239, 709/240, 709/241, 709/242

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 24.   Document ID: US 6119167 A

L4: Entry 24 of 25   File: USPT   Sep 12, 2000

US-PAT-NO: 6119167
DOCUMENT-IDENTIFIER: US 6119167 A

TITLE: Pushing and pulling data in networks

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyle; Stephen S.	Fremont	CA		
King; Peter F.	Half Moon Bay	CA		
Martin, Jr.; Bruce K.	Palo Alto	CA		
Rossmann; Alain S.	Palo Alto	CA		
Schwartz; Bruce V.	San Mateo	CA		

US-CL-CURRENT: 709/234; 709/203, 709/235

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 25.   Document ID: US 6047045 A

L4: Entry 25 of 25   File: USPT   Apr 4, 2000

US-PAT-NO: 6047045
DOCUMENT-IDENTIFIER: US 6047045 A

TITLE: System and method for testing a telephone data interface system

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bauer; Deborah	Leesburg	VA		
Button; Ross Edward	Ontario			CA
Cavanagh; Mike	Woodlawn			CA
McQuigge Ernst; Susan Jane	Gloucester			CA
Germann; Kevin	Gatineau			CA
Holmes; Ralph	Glenn Dale	MD		
Howlette; Samuel S.	Great Falls	VA		
Kalyn; William	Kanata			CA
Sauve; Steve	Orleans			CA
Sommers; Francis Cornelius	Ottawa			CA

US-CL-CURRENT: 379/26.01; 379/15.01

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 Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D
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  Clear      Generate Collection      Print      Fwd Refs      Bkwd Refs      Generate OACS
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Term	Documents
LOAD	712364
LOADS	239864
(3 AND LOAD).PGPB,USPT.	25
(L3 AND LOAD).PGPB,USPT.	25

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Previous Page   Next Page   Go to Doc#

Hit List

Search Results - Record(s) 1 through 20 of 20 returned.

☐ 1. Document ID: US 20040143559 A1

Using default format because multiple data bases are involved.

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L17: Entry 1 of 20                    File: PGPB          Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040143559
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040143559 A1

TITLE: System and method for developing artificial intelligence

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:
NAME                      CITY        STATE     COUNTRY      RULE-47
Ayala, Francisco J.       Dallas      TX        US

US-CL-CURRENT: 706/13; 706/26
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 2. Document ID: US 20040127778 A1

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L17: Entry 2 of 20                    File: PGPB          Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040127778
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040127778 A1

TITLE: Identifying or measuring selected substances or toxins in a subject using
resonant raman signals

PUBLICATION-DATE: July 1, 2004

INVENTOR-INFORMATION:
NAME                      CITY        STATE     COUNTRY      RULE-47
Lambert, James L.         Sunland     CA        US
Borchert, Mark S.         La Canada   CA        US

US-CL-CURRENT: 600/318
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 3. Document ID: US 20040045030 A1

L17: Entry 3 of 20   File: PGPB   Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040045030
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040045030 A1

TITLE: System and method for communicating media signals

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reynolds, Jodie Lynn	Folsom	CA	US	
Ingraham, Robert Walter	Folsom	CA	US	

US-CL-CURRENT: 725/110

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 4. Document ID: US 20040019283 A1

L17: Entry 4 of 20   File: PGPB   Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040019283
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040019283 A1

TITLE: Assessing blood brain barrier dynamics or identifying or measuring selected substances, including ethanol or toxins, in a subject by analyzing Raman spectrum signals

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lambert, James L.	Sunland	CA	US	
Borchert, Mark S.	La Canada	CA	US	

US-CL-CURRENT: 600/476

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 5. Document ID: US 20030222820 A1

L17: Entry 5 of 20   File: PGPB   Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030222820
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030222820 A1

TITLE: Wireless location using hybrid techniques

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: 342/457

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

□ 6. Document ID: US 20030210457 A1

L17: Entry 6 of 20   File: PGPB   Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030210457
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030210457 A1

TITLE: Tunable multimode wavelength division multiplex raman pump and amplifier, and a system, method, and computer program product for controlling tunable raman pumps, and raman amplifiers

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Emori, Yoshihiro	Chiyoda-Ku		JP	
Namiki, Shu	Chiyoda-Ku		JP	
Yoshida, Junji	Chiyoda-Ku		JP	
Tsukiji, Naoki	Chiyoda-Ku		JP	

US-CL-CURRENT: 359/334

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

□ 7. Document ID: US 20030174387 A1

L17: Entry 7 of 20   File: PGPB   Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030174387
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030174387 A1

TITLE: Tunable multimode laser diode module, tunable multimode wavelength division multiplex raman pump, and amplifier, and a system, method, and computer program product for controlling tunable multimode laser diodes, raman pumps, and raman amplifiers

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Eggleton, Benjamin J.	Summit	NJ	US	
Steinvurzel, Paul	Jersey City	NJ	US	

Emori, Yoshihiro	Tokyo	JP
Namiki, Shu	Tokyo	JP
Fujisaki, Akira	Tokyo	JP
Kimura, Toshio	Tokyo	JP

US-CL-CURRENT: 359/334

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 Full │ Title │ Citation │ Front │ Review │ Classification │ Date │ Reference │ Sequences │ Attachments │ Claims │ KWIC │ Draw De
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☐ 8.   Document ID: US 20030146871 A1

L17: Entry 8 of 20   File: PGPB   Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030146871
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030146871 A1

TITLE: Wireless location using signal direction and time difference of arrival

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: 342/457; 342/465, 455/404.2, 455/456.5

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 Full │ Title │ Citation │ Front │ Review │ Classification │ Date │ Reference │ Sequences │ Attachments │ Claims │ KWIC │ Draw De
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☐ 9.   Document ID: US 20030134648 A1

L17: Entry 9 of 20   File: PGPB   Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134648
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134648 A1

TITLE: Machine for providing a dynamic data base of geographic location information for a plurality of wireless devices and process for making same

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reed, Mark Jefferson	Tucson	AZ	US	
Palik, Stephen M.	St. Petersburg	FL	US	

US-CL-CURRENT: 455/456.1

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 Full │ Title │ Citation │ Front │ Review │ Classification │ Date │ Reference │ Sequences │ Attachments │ Claims │ KWIC │ Draw De
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☐   10.   Document ID: US 20010034478 A1

L17: Entry 10 of 20   File: PGPB   Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034478
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010034478 A1

TITLE: Assessing blood brain barrier dynamics or identifying or measuring selected
substances or toxins in a subject by analyzing raman spectrum signals of selected
regions in the eye

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY   RULE-47
Lambert, James L.   Sunland   CA   US
Borchert, Mark S.   La Canada   CA   .   US

US-CL-CURRENT: 600/318

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D(|

☐   11.   Document ID: US 20010022558 A1

L17: Entry 11 of 20   File: PGPB   Sep 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010022558
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010022558 A1

TITLE: Wireless location using signal fingerprinting

PUBLICATION-DATE: September 20, 2001

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY   RULE-47
Karr, Charles L. JR.   Tuscaloosa   AL   US
Dupray, Dennis J.   Denver   CO   US

US-CL-CURRENT: 342/450; 455/456.5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D(|

☐   12.   Document ID: US 20010014976 A1

L17: Entry 12 of 20   File: PGPB   Aug 16, 2001

PGPUB-DOCUMENT-NUMBER: 20010014976
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010014976 A1

TITLE: System and method for transmitting and utilizing electronic programs guide

information

PUBLICATION-DATE: August 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roop, John H.	Palo Alto	CA	US	
Ebright, Alan R.	Las Gatos	CA	US	
Kochy, Jeffrey J.	San Jose	CA	US	
Warden, David P.	Redwood City	CA	US	
Sokolik, Konstantine	Redwood City	CA	US	
Alegiani, Giambattista A.	San Francisco	CA	US	

US-CL-CURRENT: 725/91

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ **13. Document ID: US 6768577 B2**

L17: Entry 13 of 20   File: USPT   Jul 27, 2004

US-PAT-NO: 6768577
DOCUMENT-IDENTIFIER: US 6768577 B2

TITLE: TUNABLE MULTIMODE LASER DIODE MODULE, TUNABLE MULTIMODE WAVELENGTH DIVISION
MULTIPLEX RAMAN PUMP, AND AMPLIFIER, AND A SYSTEM, METHOD, AND COMPUTER PROGRAM
PRODUCT FOR CONTROLLING TUNABLE MULTIMODE LASER DIODES, RAMAN PUMPS, AND RAMAN
AMPLIFIERS

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eggleton; Benjamin J.	Summit	NJ		
Steinvurzel; Paul	Jersey City	NJ		
Emori; Yoshihiro	Chiyoda-Ku			JP
Namiki; Shu	Chiyoda-Ku			JP
Fujisaki; Akira	Chiyoda-Ku			JP
Kimura; Toshio	Chiyoda-Ku			JP

US-CL-CURRENT: 359/335; 359/341.31, 359/341.33

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ **14. Document ID: US 6765931 B1**

L17: Entry 14 of 20   File: USPT   Jul 20, 2004

US-PAT-NO: 6765931
DOCUMENT-IDENTIFIER: US 6765931 B1

TITLE: Gateway with voice

DATE-ISSUED: July 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rabenko; Theodore F.	Duluth	GA		
Hartman; David	Irvine	CA		
Thi; James C. H.	Irvine	CA		

US-CL-CURRENT: <u>370/493</u>; <u>370/285</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 15. Document ID: US 6574501 B2

L17: Entry 15 of 20   File: USPT   Jun 3, 2003

US-PAT-NO: 6574501
DOCUMENT-IDENTIFIER: US 6574501 B2

TITLE: Assessing blood brain barrier dynamics or identifying or measuring selected substances or toxins in a subject by analyzing Raman spectrum signals of selected regions in the eye

DATE-ISSUED: June 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lambert; James L.	Sunland	CA		
Borchert; Mark S.	La Canada	CA		

US-CL-CURRENT: <u>600/473</u>; <u>600/475</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 16. Document ID: US 6522342 B1

L17: Entry 16 of 20   File: USPT   Feb 18, 2003

US-PAT-NO: 6522342
DOCUMENT-IDENTIFIER: US 6522342 B1

TITLE: Graphical tuning bar for a multi-program data stream

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gagnon; Gregory J.	Torrance	CA		
Crook; John A.	Castle Rock	CO		
Crandall; Joshua S.	San Francisco	CA		
Miller; Charles E.	Los Angeles	CA		
Hughes, Jr.; Henry A.	San Diego	CA		

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White; Gail K.                    San Diego          CA
Marshall; Robert W.               San Diego          CA
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US-CL-CURRENT: <u>715</u>/<u>716</u>; <u>715</u>/<u>719</u>, <u>715</u>/<u>833</u>, <u>715</u>/<u>974</u>, <u>725</u>/<u>38</u>, <u>725</u>/<u>56</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   17.   Document ID: US 6438594 B1

L17: Entry 17 of 20   File: USPT   Aug 20, 2002

US-PAT-NO: 6438594
DOCUMENT-IDENTIFIER: US 6438594 B1

TITLE: Delivering <u>service</u> to a client via a locally addressable interface

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: <u>709</u>/<u>225</u>; <u>709</u>/<u>203</u>, <u>709</u>/<u>217</u>, <u>709</u>/<u>250</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   18.   Document ID: US 6289382 B1

L17: Entry 18 of 20   File: USPT   Sep 11, 2001

US-PAT-NO: 6289382
DOCUMENT-IDENTIFIER: US 6289382 B1

TITLE: System, method and article of manufacture for a globally addressable interface in a <u>communication services</u> patterns environment

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: <u>709</u>/<u>226</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   19.   Document ID: US 6249252 B1

L17: Entry 19 of 20   File: USPT   Jun 19, 2001

US-PAT-NO: 6249252
DOCUMENT-IDENTIFIER: US 6249252 B1

TITLE: Wireless location using multiple location estimators

DATE-ISSUED: June 19, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dupray; Dennis J.	Denver	CO		

US-CL-CURRENT: <u>342/450</u>; <u>342/357</u>.01, <u>342/457</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   20.   Document ID: US 5790198 A

L17: Entry 20 of 20   File: USPT   Aug 4, 1998

US-PAT-NO: 5790198
DOCUMENT-IDENTIFIER: US 5790198 A

TITLE: Television schedule information transmission and utilization system and process

DATE-ISSUED: August 4, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roop; John H.	Palo Alto	CA		
Ebright; Alan R.	Los Gatos	CA		
Kochy; Jeffrey J.	San Jose	CA		
Warden; David P.	Redwood City	CA		
Sokolik; Konstantine	Redwood City	CA		
Alegiani; Giambattista A.	San Francisco	CA		

US-CL-CURRENT: <u>725/48</u>; <u>348/467</u>, <u>348/473</u>, <u>725/44</u>, <u>725/50</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Term	Documents
SERVICE	376404
SERVICES	168290
PROVIDER	59985
PROVIDERS	37081
(16 AND (SERVICE ADJ PROVIDER)).PGPB,USPT.	20
(L16 AND SERVICE PROVIDER).PGPB,USPT.	20

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WEST Search History

| Hide Items | Restore | Clear | Cancel |

DATE: Tuesday, December 07, 2004

Hide?	Set Name	Query	Hit Count
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☐	L5	L4 and service provider	0
☐	L4	L3 and load	30
☐	L3	L2 and length	60
☐	L2	transmission line simulat$	93
☐	L1	wire line simulat$	3

END OF SEARCH HISTORY

Hit List

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs |

| Generate OACS |

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 5293421 A

Using default format because multiple data bases are involved.

L1: Entry 1 of 3   File: USPT   Mar 8, 1994

US-PAT-NO: 5293421
DOCUMENT-IDENTIFIER: US 5293421 A

TITLE: Summing amplifier with a complex weighting factor and interface including such a summing amplifier

DATE-ISSUED: March 8, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zanzig; Hans-Jurgen	Weil der Stadt		.	DE

US-CL-CURRENT: 379/399.01; 379/403

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 2. Document ID: US 5173896 A

L1: Entry 2 of 3   File: USPT   Dec 22, 1992

US-PAT-NO: 5173896
DOCUMENT-IDENTIFIER: US 5173896 A

TITLE: T-carrier network simulator

DATE-ISSUED: December 22, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dariano; Michael A.	Deptford	NJ		

US-CL-CURRENT: 370/249; 370/502, 370/516, 379/21

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 3. Document ID: US 4370741 A

L1: Entry 3 of 3   File: USPT   Jan 25, 1983

US-PAT-NO: 4370741
DOCUMENT-IDENTIFIER: US 4370741 A

TITLE: Process and an apparatus for transmitting data across a two-wire line

DATE-ISSUED: January 25, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haass; Adolf	Munich			DE

US-CL-CURRENT: <u>370</u>/<u>201</u>; <u>370</u>/<u>206</u>, <u>370</u>/<u>282</u>, <u>379</u>/<u>417</u>, <u>455</u>/<u>295</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Term	Documents
WIRE	525293
WIRES	273804
LINE	2196369
LINES	1334712
SIMULAT$	0
SIMULAT	23
SIMULATA	6
SIMULATABILITY	3
SIMULATABLE	122
SIMULATAEOUSLY	1
SIMULATAING	1
(WIRE LINE SIMULAT$).PGPB,USPT.	3

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Display Format: | - | | Change Format |

Previous Page   Next Page   Go to Doc#

Hit List

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☐ 1. Document ID: US 20040193382 A1

Using default format because multiple data bases are involved.

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L4: Entry 1 of 30                    File: PGPB            Sep 30, 2004
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PGPUB-DOCUMENT-NUMBER: 20040193382
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040193382 A1
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TITLE: Method and apparatus for calibrating a multiport test system for measurement of a DUT

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Adamian, Vahe' A.	Lexington	MA	US	
Phillips, Peter V.	Leominster	MA	US	
Enquist, Patrick J.	Worcester	MA	US	

US-CL-CURRENT: 702/118

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 2. Document ID: US 20040161243 A1

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L4: Entry 2 of 30                    File: PGPB            Aug 19, 2004
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PGPUB-DOCUMENT-NUMBER: 20040161243
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040161243 A1
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TITLE: Polarization-mode dispersion detecting method, and a dispersion compensation controlling apparatus and a dispersion compensation controlling method

PUBLICATION-DATE: August 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ooi, Hiroki	Kawasaki-shi		JP	
Ishikawa, George	Kawasaki-shi		JP	
Akiyama, Yuichi	Kawasaki-shi		JP	

US-CL-CURRENT: 398/152

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D.`

☐ 3.   Document ID: US 20030173978 A1

L4: Entry 3 of 30   File: PGPB   Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030173978
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030173978 A1

TITLE: Method and apparatus for calibrating a multiport test system for measurement of a dut

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Adamian, Vahe?apos; A.	Lexington	MA	US	
Phillips, Peter V.	Leominster	MA	US	
Enquist, Patrick J.	Worcester	MA	US	

US-CL-CURRENT: 324/638

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D.`

☐ 4.   Document ID: US 20030084415 A1

L4: Entry 4 of 30   File: PGPB   May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084415
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030084415 A1

TITLE: System and method for evaluation of electric characteristics of printed-circuit boards

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sasaki, Hideki	Tokyo		JP	
Harada, Takashi	Tokyo		JP	

US-CL-CURRENT: 716/4; 716/15

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D.`

☐ 5.   Document ID: US 20020053899 A1

L4: Entry 5 of 30   File: PGPB   May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020053899

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020053899 A1

TITLE: Method and apparatus for linear characterization of multi-terminal single-ended or balanced devices

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Adamian, Vahe	Lexington	MA	US	
Phillips, Peter	Leominster	MA	US	
Enquist, Patrick J.	Worcester	MA	US	
Cole, J. Bradford	Westford	MA	US	

US-CL-CURRENT: 324/76.19

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

□ 6.   Document ID: US 20020053898 A1

L4: Entry 6 of 30   File: PGPB   May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020053898
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020053898 A1

TITLE: Multiport automatic calibration device for a multiport test system

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ademian, Vahe	Lexington	MA	US	
Phillips, Peter	Leominster	MA	US	
Cole, J. Bradford	Westford	MA	US	

US-CL-CURRENT: 324/76.19

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

□ 7.   Document ID: US 20010018761 A1

L4: Entry 7 of 30   File: PGPB   Aug 30, 2001

PGPUB-DOCUMENT-NUMBER: 20010018761
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010018761 A1

TITLE: Design assisting system and design assisting method

PUBLICATION-DATE: August 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sasaki, Hideki	Tokyo		JP	
Harada, Takashi	Tokyo		JP	
Kuriyama, Toshihide	Tokyo		JP	

US-CL-CURRENT: <u>716</u>/<u>15</u>; <u>716</u>/<u>10</u>, <u>716</u>/<u>5</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 8.   Document ID: US 6826506 B2

L4: Entry 8 of 30   File: USPT   Nov 30, 2004

US-PAT-NO: 6826506
DOCUMENT-IDENTIFIER: US 6826506 B2

TITLE: Method and apparatus for calibrating a multiport test system for measurement of a DUT

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adamian; Vahe' A.	Lexington	MA		
Phillips; Peter V.	Leominster	MA		
Enquist; Patrick J.	Worcester	MA		

US-CL-CURRENT: <u>702</u>/<u>118</u>; <u>324</u>/<u>601</u>, <u>324</u>/<u>638</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 9.   Document ID: US 6728491 B1

L4: Entry 9 of 30   File: USPT   Apr 27, 2004

US-PAT-NO: 6728491
DOCUMENT-IDENTIFIER: US 6728491 B1

TITLE: Polarization-mode dispersion detecting method, and a dispersion compensation controlling apparatus and a dispersion compensation controlling method

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ooi; Hiroki	Kawasaki			JP
Ishikawa; George	Kawasaki			JP
Akiyama; Yuichi	Kawasaki			JP

US-CL-CURRENT: <u>398</u>/<u>147</u>; <u>398</u>/<u>159</u>, <u>398</u>/<u>194</u>, <u>398</u>/<u>195</u>, <u>398</u>/<u>201</u>, <u>398</u>/<u>209</u>

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 Full  │ Title │ Citation │ Front │ Review │ Classification │ Date │ Reference ║ Sequences ║ Attachments │ Claims │ KWIC │ Draw D
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☐   10.   Document ID: US 6653848 B2

L4: Entry 10 of 30   File: USPT   Nov 25, 2003

US-PAT-NO: 6653848
DOCUMENT-IDENTIFIER: US 6653848 B2

TITLE: Method and apparatus for linear characterization of multi-terminal single-
ended or balanced devices

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Adamian; Vahe   Lexington   MA
Phillips; Peter V.   Leominster   MA
Enquist; Patrick J.   Worcester   MA
Cole; J. Bradford   Westford   MA

US-CL-CURRENT: 324/638; 324/601, 324/615, 702/109, 702/117, 702/85, 703/14, 703/2

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 Full  │ Title │ Citation │ Front │ Review │ Classification │ Date │ Reference ║ Sequences ║ Attachments │ Claims │ KWIC │ Draw D
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☐   11.   Document ID: US 6614237 B2

L4: Entry 11 of 30   File: USPT   Sep 2, 2003

US-PAT-NO: 6614237
DOCUMENT-IDENTIFIER: US 6614237 B2

TITLE: Multiport automatic calibration device for a multiport test system

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Ademian; Vahe   Lexington   MA
Phillips; Peter   Leominster   MA
Cole; J. Bradford   Westford   MA

US-CL-CURRENT: 324/601

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 Full  │ Title │ Citation │ Front │ Review │ Classification │ Date │ Reference ║ Sequences ║ Attachments │ Claims │ KWIC │ Draw D
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☐   12.   Document ID: US 6598208 B2

L4: Entry 12 of 30   File: USPT   Jul 22, 2003

US-PAT-NO: 6598208
DOCUMENT-IDENTIFIER: US 6598208 B2

TITLE: Design and assisting system and method using electromagnetic position

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sasaki; Hideki	Tokyo			JP
Harada; Takashi	Tokyo			JP
Kuriyama; Toshihide	Tokyo			JP

US-CL-CURRENT: <u>716/4</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   13.   Document ID: US 6546528 B1

L4: Entry 13 of 30   File: USPT   Apr 8, 2003

US-PAT-NO: 6546528
DOCUMENT-IDENTIFIER: US 6546528 B1

TITLE: System and method for evaluation of electric characteristics of printed-circuit boards

DATE-ISSUED: April 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sasaki; Hideki	Tokyo			JP
Harada; Takashi	Tokyo			JP

US-CL-CURRENT: <u>716/5</u>; <u>716/15</u>, <u>716/4</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   14.   Document ID: US 6388512 B1

L4: Entry 14 of 30   File: USPT   May 14, 2002

US-PAT-NO: 6388512
DOCUMENT-IDENTIFIER: US 6388512 B1

TITLE: Process for a high efficiency Class D microwave power amplifier operating in the S-Band

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sims, III; William Herbert	Decatur	AL		

US-CL-CURRENT: <u>330/2</u>; <u>330/251</u>, <u>330/295</u>, <u>330/310</u>

☐ 15.   Document ID: US 6321169 B1

L4: Entry 15 of 30   File: USPT   Nov 20, 2001

US-PAT-NO: 6321169
DOCUMENT-IDENTIFIER: US 6321169 B1

TITLE: Equivalent circuit of inductance element, method of analyzing circuit constants, simulator, and record media

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Iwao; Hidemi	Takasaki			JP

US-CL-CURRENT: 702/65; 702/117, 702/75, 702/76

☐ 16.   Document ID: US 6311313 B1

L4: Entry 16 of 30   File: USPT   Oct 30, 2001

US-PAT-NO: 6311313
DOCUMENT-IDENTIFIER: US 6311313 B1

TITLE: X-Y grid tree clock distribution network with tunable tree and grid networks

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Camporese; Peter J.	Hopewell Junction	NY		
Deutsch; Alina	Chappaqua	NY		
McNamara; Timothy Gerard	Fishkill	NY		
Restle; Phillip John	Katonah	NY		
Webber; David Allan	Poughkeepsie	NY		

US-CL-CURRENT: 716/6; 716/21, 716/8, 716/9

☐ 17.   Document ID: US 6215372 B1

L4: Entry 17 of 30   File: USPT   Apr.10, 2001

US-PAT-NO: 6215372
DOCUMENT-IDENTIFIER: US 6215372 B1

TITLE: Method and apparatus for reducing electrical resonances in power and noise propagation in power distribution circuits employing plane conductors

DATE-ISSUED: April 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Novak; Istvan	Maynard	MA		

US-CL-CURRENT: <u>333</u>/<u>12</u>; <u>361</u>/<u>763</u>, <u>361</u>/<u>794</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D |

☐ 18.   Document ID: US 6205571 B1

L4: Entry 18 of 30   File: USPT   Mar 20, 2001

US-PAT-NO: 6205571
DOCUMENT-IDENTIFIER: US 6205571 B1

TITLE: X-Y grid tree tuning method

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Camporese; Peter J.	Hopewell Junction	NY		
Deutsch; Alina	Chappagua	NY		
McNamara; Timothy Gerard	Fishkill	NY		
Restle; Phillip John	Katonah	NY		
Webber; David Allan	Poughkeepsie	NY		

US-CL-CURRENT: <u>716</u>/<u>2</u>; <u>716</u>/<u>14</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D |

☐ 19.   Document ID: US 6038383 A

L4: Entry 19 of 30   File: USPT   Mar 14, 2000

US-PAT-NO: 6038383
DOCUMENT-IDENTIFIER: US 6038383 A

TITLE: Method and apparatus for determining signal line interconnect widths to ensure electromigration reliability

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Young; Duane J.	Sugarland	TX		
Cano; Francisco A.	Missouri City	TX		

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Savithri; Nagaraj N          Dallas              TX
Haznedar; Haldun             Missouri City       TX
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US-CL-CURRENT: <u>716</u>/<u>5</u>; <u>703</u>/<u>14</u>, <u>716</u>/<u>10</u>, <u>716</u>/<u>12</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐   20.   Document ID: US 5825240 A

L4: Entry 20 of 30   File: USPT   Oct 20, 1998

US-PAT-NO: 5825240
DOCUMENT-IDENTIFIER: US 5825240 A

TITLE: Resonant-tunneling transmission line technology

DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Geis; Michael W.	Acton	MA		
Brown; Elliott R.	Billerica	MA		
Eglash; Stephen J.	Palo Alto	CA		
Dennis; Christopher L.	Baker City	OR		

US-CL-CURRENT: <u>327</u>/<u>570</u>; <u>257</u>/<u>25</u>, <u>326</u>/<u>134</u>, <u>327</u>/<u>195</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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<u>Previous Page</u>   <u>Next Page</u>   <u>Go to Doc#</u>

Hit List

Search Results - Record(s) 21 through 30 of 30 returned.

☐ 21. Document ID: US 5787211 A

Using default format because multiple data bases are involved.

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L4: Entry 21 of 30                    File: USPT              Jul 28, 1998
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US-PAT-NO: 5787211
DOCUMENT-IDENTIFIER: US 5787211 A
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TITLE: Optical modulator for CATV systems
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DATE-ISSUED: July 28, 1998
```

```
INVENTOR-INFORMATION:
NAME                            CITY                STATE  ZIP CODE   COUNTRY
Gopalakrishnan; Ganesh K.       Huntingdon Valley   PA
```

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US-CL-CURRENT: 385/2; 385/3, 385/8
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Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 22. Document ID: US 5761486 A

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L4: Entry 22 of 30                    File: USPT              Jun 2, 1998
```

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US-PAT-NO: 5761486
DOCUMENT-IDENTIFIER: US 5761486 A
```

```
TITLE: Method and apparatus for simulating a computer network system through
collected data from the network
```

```
DATE-ISSUED: June 2, 1998
```

```
INVENTOR-INFORMATION:
NAME                            CITY            STATE      ZIP CODE     COUNTRY
Watanabe; Yutaka                Kawasaki                                JP
Muraki; Yasuaki                 Kawasaki                                JP
Nakagawa; Takashi               Kawasaki                                JP
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US-CL-CURRENT: 703/21
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Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 23. Document ID: US 5640112 A

US-PAT-NO: 5640112
DOCUMENT-IDENTIFIER: US 5640112 A

TITLE: Clock signal distributing system

DATE-ISSUED: June 17, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goto; Eiichi	Fujisawa			JP
Honma; Noriyuki	Kodaira			JP

US-CL-CURRENT: 327/141; 327/129, 327/233, 327/299, 333/100

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 24.   Document ID: US 5610833 A

L4: Entry 24 of 30   File: USPT   Mar 11, 1997

US-PAT-NO: 5610833
DOCUMENT-IDENTIFIER: US 5610833 A

TITLE: Computer-aided design methods and apparatus for multilevel interconnect technologies

DATE-ISSUED: March 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chang; Norman H.	Fremont	CA		
Chang; Keh-Jeng	Sunnyvale	CA		
Lee; Keunmyung	Redwood City	CA		
Oh; Soo-Young	Fremont	CA		

US-CL-CURRENT: 716/11; 257/E23.151, 716/15, 716/16

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 25.   Document ID: US 5559997 A

L4: Entry 25 of 30   File: USPT   Sep 24, 1996

US-PAT-NO: 5559997
DOCUMENT-IDENTIFIER: US 5559997 A

TITLE: System and method for designing a printed-circuit board

DATE-ISSUED: September 24, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsuchida; Masayuki	Osaka			JP
Uemura; Hirokazu	Yao			JP
Miura; Shinji	Kyoto			JP
Saito; Yoshiyuki	Hirakata			JP
Yoshimura; Hiroyuki	Ashiya			JP
Nishimura; Yuichi	Katano			JP
Sueda; Nobuo	Ikeda			JP

US-CL-CURRENT: 716/1; 703/13, 706/919, 706/920

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 26. Document ID: US 5060298 A

L4: Entry 26 of 30   File: USPT   Oct 22, 1991.

US-PAT-NO: 5060298
DOCUMENT-IDENTIFIER: US 5060298 A

TITLE: Monolithic double balanced mixer with high third order intercept point employing an active distributed balun

DATE-ISSUED: October 22, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Waugh; Raymond M.	Phillipsburg	NJ		
Kumar; Mahesh	Lawrenceville	NJ		

US-CL-CURRENT: 455/326; 330/277, 330/54, 455/333

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 27. Document ID: US 4864250 A

L4: Entry 27 of 30   File: USPT   Sep 5, 1989

US-PAT-NO: 4864250
DOCUMENT-IDENTIFIER: US 4864250 A

TITLE: Distributed amplifier having improved D.C. biasing and voltage standing wave ratio performance

DATE-ISSUED: September 5, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bacon; Peter	San Jose	CA		

US-CL-CURRENT: 330/277; 330/296, 330/54

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D`

☐ 28.   Document ID: US 4648018 A

L4: Entry 28 of 30   File: USPT   Mar 3, 1987

US-PAT-NO: 4648018
DOCUMENT-IDENTIFIER: US 4648018 A

TITLE: Method and apparatus to operate a high-voltage DC transmission system (HVDC)
with automatic control of the converters

DATE-ISSUED: March 3, 1987

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Neupauer; Helmut	Erlangen			DE

US-CL-CURRENT: 363/35; 363/51

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D`

☐ 29.   Document ID: US 4638416 A

L4: Entry 29 of 30   File: USPT   Jan 20, 1987

US-PAT-NO: 4638416
DOCUMENT-IDENTIFIER: US 4638416 A

TITLE: Method and apparatus for high-voltage D.C. transmission with a bypass
circuit for malfunctions

DATE-ISSUED: January 20, 1987

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Neupauer; Helmut	Erlangen			DE
Kaufhold; Wolfgang	Erlangen			DE
Wild; Georg	Langensendelbach			DE

US-CL-CURRENT: 363/35; 363/51

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D`

☐ 30.   Document ID: US 4638415 A

L4: Entry 30 of 30   File: USPT   Jan 20, 1987

US-PAT-NO: 4638415
DOCUMENT-IDENTIFIER: US 4638415 A

TITLE: Method and apparatus for resumption of normal operation of a high-voltage D.

C. transmission line

DATE-ISSUED: January 20, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Neupauer; Helmut	Erlangen			DE

US-CL-CURRENT: 363/35; 307/82, 363/51

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D: |

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